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ROBERT C. KOWERT			CUNNINGHAM, GREGORY F	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/970,082	SMITH, RANDALL B.				
Office Action Summary	Examiner	Art Unit				
	Gregory F. Cunningham	2676				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 28 M	farch 2005					
· ·						
· <u> </u>						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		•				
4) ☐ Claim(s) 1-15 and 31-44 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-15 and 31-44 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on <u>03 October 2001</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examine	: a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been received u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Motice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
<ul> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ul>	Paper No(s)/Mail Da					

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#### **DETAILED ACTION**

1. This action is responsive to communications of application received 3/28/2005.

2. The disposition of the claims is as follows: claims 1 - 15 and 31 - 44 are pending in the

application. Claims 1 and 31 are independent claims. Claims 16-30 were previously cancelled.

3. When making claim amendments, the applicant is encouraged to consider the references

in their entireties, including those portions that have not been cited by the examiner and their

equivalents as they may most broadly and appropriately apply to any particular anticipated claim

amendments.

## Allowable Subject Matter

4. The indicated allowability of claims 1-15 is withdrawn in view of the newly discovered reference(s) as given below. Rejections based on the newly cited reference(s) follow.

## Claim Rejections - 35 USC § 112

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

6. Claims 5 to 11 are rejected under 35 U.S.C. 112, first paragraph, because the

specification, while being enabling for "the first and second data values (or the first and second

non-positional rendering attributes) may also be used to select a third non-positional rendering

attribute (e.g., level of detail)", does not reasonably provide enablement for "using the first and

second non-positional rendering attributes to select a third non-positional rendering attribute" when the first and/or second non-positional attribute is now defined according to dependent claim(s) 5 to 11 yet subject to the conditions of independent claim 1. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make or use the invention commensurate in scope with these claims. The specification does not appear to teach using color saturation, drop shadow, animation, text rendering indicator (claim 6), font size, sound volume, blink rate, background blending level or shimmer level to select a third non-positional rendering attribute (e.g., level of detail).

It is most likely the applicant's intent that the third non-positional rendering attribute may include attributes such as size, opacity, level of detail, the presence of color saturation, drop shadow, animation, whether or not to render text for the object, font size, sound volume, blink rate, background blending level, and shimmer level.

- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- A. Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "are each one of the following:" in claim 5 is a relative term which renders the claim indefinite because of a missing comma either before or after the word "one". The lacking comma "," is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention do to the ambiguity of interpretation.

(Assumption is made the comma goes before the word "one". Claim 5 then reads: The method of claim 1, wherein the first and second non-positional rendering attributes are each, one of the following: color saturation, drop shadow, animation.)

#### Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claims 1-4, 7, 12, 31, 35 and 38 are rejected under 35 U.S.C. 102(b) as being disclosed by Cunniff (US Patent 5,945,992).
- A. Claim 1, "A method for rendering and displaying information using a computer graphics system, the method comprising [col. 2, lns. 1-3]:

receiving data corresponding to a plurality of objects to be rendered [col. 2, lns. 3-8], wherein the data includes a first data value and a second data value for each object [col. 2, lns. 9-11 at 'the position of each data object' and col. 6, lns. 10-11 at 'has a Position (in 3-D space)', wherein position as in 3-D space or even at least 2-D space whether real or virtual (screen space) employs at least two coordinate values (i.e. X, Y) and therefore 'position' implicitly corresponds to "a first data value and a second data value for each object" see also col. 4, lns. 21-22; col. 6, lns. 10-13 and col. 8, lns. 15-17];

using the first and second data values for each object to assign each object a first non-positional rendering attribute and a second non-positional rendering attribute [col. 2, ln. 11 at 'its

bounding geometry' wherein 'its' implicitly means 'each data object' and the 'bounding geometry' is dependent upon the location 'its position' of the data object. While two data objects might have the same 'bounding geometries', their positions would render them distinct only unless they overlapped congruently then even still be based upon the position of each 'data object'. Furthermore 'its bounding geometry' implicitly means a boundary size and shape (i.e. circle, box, a closed perimeter blob, etc.) Therefore 'its bounding geometry' (size) at least corresponds to "first non-positional rendering attribute"; moreover 'its bounding geometry' (shape) at least corresponds to "second non-positional rendering attribute". If not 'its bounding geometry' (shape), then at least 'its opaque radius' – col. 2, ln. 11.];

using the first and second non-positional rendering attributes to select a third non-positional rendering attribute [col. 2, lns. 12-22 at 'In the data structure of the preferred embodiment of the invention, information is stored as to the <u>position</u> of each data object, <u>its bounding geometry</u>, and its <u>opaque</u> radius. Using this information, various objects whose data has been sent to the client can be culled without rendering by determining whether they would be within the view cone of the observer, and by whether they would be obscured by objects in front of them. In addition, based upon their distance from the observer and upon their size, a <u>level of detail</u> based culling operation which would render <u>small</u>, distant objects at lower detail, or invisible, could be provided.' Wherein 'level of detail' corresponds to "a third non-positional rendering attribute" and 'Using this information' (position, bounding geometry and opaque radius) and 'based upon their distance from the observer and upon their size' corresponds to at least 'using the first and second non-positional rendering attributes to select'.

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Although claim 1 alleges "using the first and second non-positional rendering attributes to select a third non-positional rendering attribute", the applicant's specification in para. [0011] states: "These first and second data values (or the first and second non-positional rendering attributes) may also be used to select a third non-positional rendering attribute (e.g., level of detail)." Consequently even the first and second data values 'position' may be used to select a third non-positional rendering attribute.];

and rendering a scene including at least a subset of the plurality of objects, wherein said rendering is performed according to the first, second, and third non-positional rendering attributes, and wherein the scene is displayable on a display device [col. 2, lns. 16-19 at 'In addition, based upon their distance from the observer (position) and upon their size, a level of detail based culling operation which would render small, distant objects at lower detail']" is disclosed by Cunniff [as detailed].

- B. Claim 2, "The method of claim 1, wherein the first non-positional rendering attribute is size" is disclosed supra for claim 1.
- C. Claim 3, "The method of claim 2, wherein the second non-positional rendering attribute is opacity" is disclosed supra for claim 2.
- D. Claim 4, "The method of claim 3, wherein the third non-positional rendering attribute is level of detail" is disclosed supra for claim 3.
- E. Claim 7, "The method of claim 1, wherein the first non-positional rendering attribute is font size" is disclosed supra for claim 1. Wherein first non-positional rendering attribute is data object's bounding geometry (size) and consequently applies to any/or all objects whether or not the object is a font or whatever.

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F. Claim 12, "The method of claim 1, wherein the objects are virtual objects" is disclosed supra for claim 1. Wherein computer generated or rendered data objects correspond to "virtual objects".

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G. Per independent claim 31, this is directed to a system for performing the method of independent claim 1, and therefore is rejected to independent claim 1.

(Examiner note: "wherein processor is configured to select" does not necessitate processor autonomy without user intervention.)

H. Per dependent claims 35 and 38, these are directed to a system, respectively, for performing the method of dependent claims 3 and 7, and therefore are rejected to dependent claims 3 and 7.

## Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. Claims 5, 13, 14, 15, 34, 43 and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cunniff as applied to claim 1 above, and further in view of Robbins, (US 6,819,344 B2).
- A. Claim 5, "The method of claim 1, wherein the first and second non-positional rendering attributes are each, one of the following: color saturation, drop shadow, animation" is disclosed supra for claim 1. However Cunniff does not appear to disclose "wherein the first and second

non-positional rendering attributes are each, one of the following: color saturation, drop shadow, animation", but Robbins does in col. 6, lns. 6-31. Wherein 'animation' corresponds to "wherein the first and second non-positional rendering attributes are each, one of the following: animation".

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply 'rendering level of detail based on position, size, and/or opacity' disclosed by Cunniff in combination with 'semantic zooming using animation' disclosed by Robbins, and motivated to combine the teachings because it would 'dynamically control the appearance of the image' as revealed in col. 4, ln. 55.

B. Claim 13, "The method of claim 1, further comprising re-rendering a particular object in response to detecting that the corresponding first data value for the particular object has changed, wherein said re-rending includes updating the first non-positional attribute" is disclosed supra for claim 1.

However Cunniff does not appear to disclose "further comprising re-rendering a particular object in response to detecting that the corresponding first data value for the particular object has changed, wherein said re-rending includes updating the first non-positional attribute".

But Robbins does in col. 8, ln. 65 – col. 9, ln. 10 at 'By way of illustration, a virtual camera may move towards the helical path to show a selected section in greater detail. Another example is to decrease the focal length of the virtual camera while moving the focal point closer to the helical path. This change in perspective view transformation causes portions of the helical path closer to the user's viewpoint to progressively take up more of the viewing area while diminishing the display of regions that are less important to the user. Warping also may be

employed via the appropriate user selection to modify the width or other dimensions of the helical path for showing additional information. Another example would be to warp the image to provide a fish eye view for a selected section of the helical path.' Wherein 'change in perspective view transformation' or even 'warping, to modify the width or other dimensions' {i.e.: change in relative position (x, y, z)} corresponds to "detecting that the corresponding first data value for the particular object has changed" and 'causes portions of the helical path closer to the user's viewpoint to progressively take up more of the viewing area while diminishing the display of regions that are less important to the user' corresponds to "updating the first non-positional attribute" (size).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply 'rendering level of detail based on position, size, and/or opacity' disclosed by Cunniff in combination with 'semantic zooming using animation and change in perspective view' disclosed by Robbins, and motivated to combine the teachings because it would 'dynamically control the appearance of the image' as revealed in col. 4, ln. 55.

C. Claim 15, "The method of claim 1, further comprising zooming in on a particular object by reconfiguring one or more of the non-positional attributes" is disclosed supra for claim 1.

However Cunniff does not appear to disclose "further comprising zooming in on a particular object by reconfiguring one or more of the non-positional attributes".

But Robbins does in col. 6, lns. 15-20 at 'The semantic zooming component, for example, adapts the displayed information to the scale the associated visualization 36, such that a user can zoom in to examine details and individual values of data associated with a selected part of the

image.' Wherein 'scale' (size) and 'zoom in to examine details' (level of detail) correspond to first non-positional attribute and third non-positional attribute, respectively.

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply 'rendering level of detail based on position, size, and/or opacity' disclosed by Cunniff in combination with 'semantic zooming using scale and to examine details' disclosed by Robbins, and motivated to combine the teachings because it would 'dynamically control the appearance of the image' as revealed in col. 4, ln. 55.

- D. Per dependent claims 34 and 43, these are directed to a system, respectively, for performing the method of dependent claims 5 and 13, and therefore are rejected to dependent claims 5 and 13.
- E. Claim 14, "The method of claim 13, wherein the detecting and re-rendering is performed in real-time" is disclosed by Cunniff and Robbins supra for claim 13. However, Cunniff and Robbins do not appear to disclose "wherein the detecting and re-rendering is performed in real-time". But Robertson does in col. 4, lns. 10-14 'Pad objects make themselves visible through two mechanisms: a graphic and a portal, which is a view into the single, infinite shared desktop, analogous to a magnification glass that can peer into and roam over different parts of the Pad surface, and thus portals are used for navigation in the workspace using a navigation technique called semantic zooming' and col. 18, lns. 63-65 at 'The Information Visualizer system is a real-time 3D graphics animation system providing plural, simulated 3D, navigable workspaces for user interaction.'

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply 'rendering level of detail based on position, size, and/or opacity'

disclosed by Cunniff in combination with 'semantic zooming using animation and change in perspective view' disclosed by Robbins, coupled with real-time disclosed by Robertson, and motivated to combine the teachings because it would 'dynamically control the appearance of the image' as revealed in col. 4, ln. 55.

- F. Per dependent claim 44, this is directed to a system for performing the method of dependent claim 14, and therefore is rejected to dependent claim 14.
- 12. Claims 6, 8, 37 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cunniff as applied to claim 1 above, and further in view of van Dantzich et al., (PGPUB-DOCUMENT-NUMBER: 2002/0054117), hereinafter Dantzich.
- A. Claim 6, "The method of claim 1, wherein the first non-positional rendering attribute is an indicator of whether or not to render text for the object" is disclosed supra for claim 1. However Cunniff does not appear to disclose, "wherein the first non-positional rendering attribute is an indicator of whether or not to render text for the object", but Dantzich does in para. [0045] at "At 54, this can include drilling down for more detailed information regarding a respective notification that is associated with a display object. For example, this can include semantic zooming, wherein more detail is provided at each level of a user directed zooming operation (e.g., initiated by mouse, keyboard, audio commands and/or inputs providing indications of the user's visual patterns) until the full text or audio of the notification is rendered."

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply 'rendering level of detail based on position, size, and/or opacity' disclosed by Cunniff in combination with 'semantic zooming for rendering text' disclosed by Dantzich, and motivated to combine the teachings because it would allow other informational

properties of the items may also be included in the form of graphical and text features as revealed in para. [0007].

B. Claim 8, "The method of claim 1, wherein the first non-positional rendering attribute is sound volume" is disclosed supra for claim 1. However Cunniff does not appear to disclose, "wherein the first non-positional rendering attribute is sound volume", but Dantzich does in para. [0045] at 'this can include visual, <u>audio</u>, and/or physical renderings depicted at 52 that are associated with the notifications having priorities associated therewith. At 54, this can include drilling down for more detailed information regarding a respective notification that is associated with a display object. For example, this can include <u>semantic zooming</u>, wherein more detail is provided at each level of a user directed <u>zooming</u> operation (e.g., initiated by mouse, keyboard, <u>audio</u> commands and/or inputs providing indications of the user's visual patterns) until the full text or audio of the notification is rendered.'

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply 'rendering level of detail based on position, size, and/or opacity' disclosed by Cunniff in combination with 'semantic zooming for rendering audio (sound volume)' disclosed by Dantzich, and motivated to combine the teachings because it would allow other informational properties of the items may also be included as revealed in para. [0007].

C. Per dependent claims 37 and 39, these are directed to a system, respectively, for performing the method of dependent claims 6 and 8, and therefore are rejected to dependent claims 6 and 8.

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13. Claims 9 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cunniff as applied to claim 1 above, and further in view of Sheasby et al., (PGPUB-DOCUMENT-NUMBER: 2002/0008704 A1), hereinafter Sheasby.

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A. Claim 9, "The method of claim 1, wherein the first non-positional rendering attribute is blink rate" is disclosed supra for claim 1. However Cunniff does not appear to disclose, "wherein the first non-positional rendering attribute is blink rate", but Sheasby does in para. [0033] at "As shown in FIG. 6, the animator now has a timeline 610 with two triggering events. The first triggering event 620 invokes a "walk to" behavior. Triggering event 620 includes a parameter specifying the location that the character should walk to. It may also include attributes, such as the style with which the character should walk (run, walk, limp). The second triggering event 430 invokes a blink behavior, which may or may not have additional parameters such as blink speed."

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply 'rendering level of detail based on position, size, and/or opacity' disclosed by Cunniff in combination with 'blink speed' disclosed by Sheasby, and motivated to combine the teachings because it would cause the system to generate animation data that is representative of deterministic animation as revealed by Sheasby in abstract.

- B. Per dependent claim 40, this is directed to a system for performing the method of dependent claim 9, and therefore is rejected to dependent claim 9.
- 14. Claims 10 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cunniff as applied to claim 1 above, and further in view of Clavadetscher, (US 6,429,875 B1).

A. Claim 10, "The method of claim 1, wherein the first non-positional rendering attribute is background blending level" is disclosed supra for claim 1. However Cunniff does not appear to disclose, "wherein the first non-positional rendering attribute is background blending level", but Clavadetscher does in col. 5, lns. 7-12 at "Thus, with such images, it is not actually possible to define a sharp transition between one object and its background and when using a mask to remove an object from a particular image frame, a soft multi-bit edge is required in order to provide the required level of blending when the object is combined with a new background image."

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Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply 'rendering level of detail based on position, size, and/or opacity' disclosed by Cunniff in combination with 'blending background' disclosed by Clavadetscher, and motivated to combine the teachings because it would distinguish said object from the remaining background as revealed by Pettigrew in col. 3, lns. 46-50.

- B. Per dependent claim 41, this is directed to a system for performing the method of dependent claim 10, and therefore is rejected to dependent claim 10.
- 15. Claims 11 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cunniff as applied to claim 1 above, and further in view of Pettigrew et al., (US 6,429,875 B1), hereinafter Pettigrew.
- A. Claim 11, "The method of claim 1, wherein the first non-positional rendering attribute is shimmer level" is disclosed supra for claim 1. However Cunniff does not appear to disclose, "wherein the first non-positional rendering attribute is shimmer level", but Pettigrew does in para. [0098] at "For instance, according to one embodiment of the invention, the user may decide

that a target area requires a particular type of gleam, reflection, shine, shadow, or other visual attribute, which may be momentary within the scene or continuous throughout the scene."

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply 'rendering level of detail based on position, size, and/or opacity' disclosed by Cunniff in combination with 'gleaming' disclosed by Pettigrew, and motivated to combine the teachings because it would new techniques can create realistic special effects as revealed by Pettigrew in para. [0004].

- B. Per dependent claim 42, this is directed to a system for performing the method of dependent claim 10, and therefore is rejected to dependent claim 10.
- 16. Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cunniff as applied to claim 1 above, and further in view of Crotty et al., (PGPUB-DOCUMENT-NUMBER: 20020050995), hereinafter Crotty.
- A. Claim 32, "The computer system of claim 31, wherein one of the one or more auxiliary rendering attributes is color saturation" is disclosed supra for claim 1. However Cunniff does not appear to disclose "wherein one of the one or more auxiliary rendering attributes is color saturation", but Crotty does in para. [0032] at 'Visual attributes may include, for example, color, hue, brightness, and saturation.'

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply 'rendering level of detail based on position, size, and/or opacity' disclosed by Cunniff in combination with 'saturation' disclosed by Crotty, and motivated to combine the teachings because it would 'permit visualization of large sets of data' as revealed by Crotty in para. [0006].

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17. Claim 33 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cunniff as applied to claim 1 above, and further in view of Buchner et al., (US 5471572 A), hereinafter Buchner.

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A. Claim 33, "The computer system of claim 31, wherein one of the one or more auxiliary rendering attributes is a drop shadow" is disclosed supra for claim 1. However Cunniff does not appear to disclose, "wherein one of the one or more auxiliary rendering attributes is a drop shadow", but Buchner does in col. 1, lns. 27-32 at 'Each polygon may contribute to one or more pixels of the final image (a pixel is a picture element of a display means), wherein each of the pixels may have a unique color based on such attributes as intrinsic color, lighting (specular highlights, shading, shadows, etc.)'

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply 'rendering level of detail based on position, size, and/or opacity' disclosed by Cunniff in combination with 'saturation' disclosed by Buchner, and motivated to combine the teachings because it would 'permit visualization of large sets of data' as revealed by Crotty in para. [0006].

- 18. Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cunniff as applied to claim 1 above, and further in view of Berend et al., (US 5598182 A), hereinafter Berend.
- A. Claim 36, "The computer system of claim 31, wherein one of the one or more auxiliary rendering attributes is transparency" is disclosed supra for claim 1. However Cunniff does not appear to disclose, "wherein one of the one or more auxiliary rendering attributes is

transparency", but Berend does in col. 3, lns. 23-25 at 'The <u>attribute</u> data may define the colour and <u>transparency</u> of an object, each of which is variable across a sectional line.'

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply 'rendering level of detail based on position, size, and/or opacity' disclosed by Cunniff in combination with 'transparency' disclosed by Berend, and motivated to combine the teachings because it would 'generating visible output images, including visually distinct objects' as revealed by Berend in col. 3, 36-37.

## Response to Arguments

19. Applicant's arguments with respect to claims 31-44 have been considered but are moot in view of the new ground(s) of rejection.

#### Responses

20. Responses to this action should be mailed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231.

#### Inquiries

21. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory F. Cunningham whose telephone number is (571) 272-7784. The examiner can normally be reached on Mon. - Thurs. 7:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on (571) 272-7778. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

J.F. Canning ham

Gregory F. Cunningham Examiner Art Unit 2676

gfc

5/3/2005

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Marker ( Bella